Three mentings of the members of the Provo River Distribution System Bound were held during 1960 on Jan. 25, Jan 26, and Dec. 19.

At the Jan 25 meeting the Articles of Association as Grafted by the State Engineer's Office were read, approved and ratified, by the Board. Copy of said articles appear on pages V to VII of this annual report.

At the Jan. 26 meeting Mr. Niels anderson was retained as Chairman of the B oard for the Insuing year, although no mention is made in the minutes. The 1960 budget in the amount of \$11,617 was approved and the State Engineer was impowered to assess and collect assessments on the same basis as previous year. Wallace R. Wayman and Ike Baum were retained and elected to Provo River Water Commissioner and Deputy for the coming year by an unanimous vote of the Board.

At the Dec. 19 meeting the Board went on record as approving the recommendations of the Commissioner and his Deputy for instillation of control and measuring devices as rapidly as may be suitable. Also, that the State Engineer be notified of this action and that he be requested to take action as he deems lawful proper and expedient to inforce such instillation. See exhibit #1 showing instillations recommended. The Board approved the discontinuing of well level and certain off stream reading by the Deputy.

Computed Natural flow of Provo River provided 100% of Class "A" demands of decreed Rights in Utah Valley to May 22; 80% to June 2; 100% to June 16; 80% to June 23; 70% to July 11; 60% to Aug. 9; 55% to Aug. 16; 50% to Sept. 9; 40% to Oct. 8; 50% to Oct. 14; 100% balance of season. Wasatch Division provided 100% to First Class Rights to June 28; 85% to July 1; 55% during July; 36% during Aug. and Sept. The total Natural Flow (185,167 Acre Feet) for the water year Nov.1, 1959 to Oct. 31, 1960 equaled 95.5% of that for the previous year. The Irrigation Season Natural Flow, April 1 to Oct. 31, 1960 equaled 97% of previous year for the same period. Both years were low water years about 60% of 1958

With the exception of Trial, Washington, Wall, Lost and Big Elk all storage lakes at head of the River filled completly. In that Washington Lake did not fill, 38 acre feet storage in Crystal Lake on a tributary of Washington Lake was distributed or allocated to Washington Lake owners or rights. During the water year owners of storage in Trial, Washington and Lost Lakes were directed to make certain repairs to out let and free board facilities by the State Engineers Office. 9,934 acre feet was the total 1960 water year storage from all lakes.

Duchesne Tunnel diversion accounted for 31,989 acre feet of Deer Creek storage, after deduction of 4% conveyance losses. Weber Provo Canal delivered 35,584 acre feet to Provo River. Off this amount 29,583 acre feet was credited to Deer Creek Storage after deduction of conveyance losses; 5015 of which was Echo Storage. The difference of 6001 acre feet was either conveyance loss to Deer Creek Res. or #9,580 water credited to N.F. The 5,366.34 foot water elevation of Deer Creek Res. reached Oct. 7.1960 with 55,700 acre feet storage marks the lowest level reached sence the Res. was first built and filled. This was 47 acre feet lower than reached in 1959 on Oct. 16.

A conveyance loss of 4% was began and charged on Ontario Tunnel water for 1960 season from where it enters Provo River to Deer Creek Res. as provided in the decree. This has not been done in previous years.

Four remotrary change of point of diversion place or puriou of use applications were approved and places in apperation in connection with water used for manicipal purposes from Provo River drainage during 1960. Three were for Provo City and one of Crem City. They are as follows:

App#	Date of Apr). Fren	То	Ant	Period	i ot
60-1	Jan 28-60 Mar 14-60	UP&L Flume	So. Fk. Spr. PB&W Union C	10cfs	Jan 1 to Apr	15 ProvolCaty
60-15	0at 5-60	UP&L Flume	So. Fk. Spr.	10cfs	Out 15 to Apr	15 **
60-7	Apr 13-60	UP&L Flume	S.L. Aqued	/CIS	RDP: 13 VO AS	ress PRMU Co. 6 Gen City

Provo River Water Commussioner has imposed no contriction to the use of winter N.F. Unter for municipal purposes, as the drawer provides for such winter use of N.F. Water in quastion and no abandonical has ever been show

Deer Creek Res. stored and transferred 25,304 acre feet of Vital Power and Light Co. N. F. Power Water Balance of Provo River water accuse Lated between Nov. 1, 1959 and June 15, 1960 to association balance. Authorization was given by UPAL Co. in their letter of April 5, 1960 to the association. This proceedure is not in associance with the original tertiary storage contract between UPAL Co. and the association, however no objections when imposed or made by Utah Lake interests on Jan. 31, when the first 4005 were feet was transferred and reported. This proceedure of bandfers to the association of Power Water Balance will continue when authorized, units and directed to do otherwise by higher authority.

Due to the water shortage of 1960 regulting in cutting class "A" lian Valley Water to 40% of decree, regulation on South Fork, Utah County and Oper Creek, Wasatch County became necessary, Users affected on South Fork were Conrad Brothers, Sterling Ercanbrack and David Long, Necessitating putting them on a turm system. The proceedure followed is shown in my letter of huly 26, 1960 to State Engineer, David Long's claim to the use of all the waters of Bunnells Fork (5 to 6 ofs) on 10 acres of land, resulted through the effort of the Provo River Water Users's Association in a Temperary Order from the Judge of Fouth Judicial District Court dated Sept. 14, 1960. It is hoped the court will expedite this case to a conclusion, for to make distribution under the present Court Order for another irrigation season would be very difficult and unsatisfactory.

Regulation was necessary on Deer Creek stream, Wasatch Crunty as the Hoover interests only hold Secondary Rights of the Association for lands leased. The association should furnish them with storage on a replacement basis if their lands are to be successfully operated in water short years.

1960 and 1961 distribution of Provo River has and will result in considerable extra duties for the commissioner, namely; distribution of South Pork and Deer Creek streams, including temporary changes of municipal water in computations, extra alta-Orem City recording station of storage use, Checking and recording of winter uses on all Utah Valley users by order of State Engineer's Office, supervising instillation of control and measuring facily ities.

Reference is made to the first three paragraphs contained in my 1959 annual report regarding river losses. In my judgement these same conditions obtains on exists, however no recommendations will be made at this time for correction of these discrepancies until more data can be compiled.

As it now stands the tentative 4% loss figure shall obtain (see paragraph 117 of decree) until. a more realistic figure can be determined by the commissioner and approved by the court.

The practice over the years has been for the Deputy to deduct the 4% on all foreign and head of the River Storage in computing Natural Flow for the Wasatch division of the River which falls above Deer Creek Res. There is some apparent evidence in the language of the decree that this is the intent. Using these practices together with delivering 100% of 3/4 of all storage water released to users over a 10 mile river reach as set up in the computations method, makes Utah Valley N.F. users assume not only all losses on N.F. delivered from below deer Creek Res., but also, all losses on storage water released and delivered to users over a 10 mile river reach. At 2% it would equal 1,135 acre feet on 1960 storage delivered to the Mardock Canal alone.

Duing 1950 Irrigation season some attempts were made to measure N.P. coming into the reservior and River below and to cooperate with the U.S. C.S. in comparing this with average computed N.F. determined for Utah Valley users. Such a method it was found would be very difficultand expensive because of

daily fluctuations in return flow N.F. water entering the reservice from streams above as well as entering the reservior under ground. An attempt to approach and effect a determination of unaccounted for river losses by comparing computed reservior amount with actual reservior amount for any given date or time was also found unrealistic. Computed amount is theoritically the same as actual reservior amount as shown on sheet ## showing "End of the Month Storage Summary of Deer Creek Res." The small differences shown were errors in computations not found.

Any loss % or loss figure chosen becomes a function of the Deer Creek Res. additions and balances, hence no theoritical differences previals, between computed and actual reservoir amount when no errors in computations exists.

The most realistic approach to a determination of Provo River losses is perhaps a comparision with other river known losses of similar characteristic where no storage complication exists, also comparision with reaches of existing canals in this vacinity having some similar conditions. To further persue an extended study of Provo River Losses, I feel the decision should rest with the Board and the Stae Engineer.

The following: -- Taylor, Finlayson, Johnson, Geneva Park, Lion Park, Brown, Griffiths, Rieskes, Orchard, Tanner: --- diversions form Lake Bottoms Canal all supply water to the unincorporated water users of Spring Creek. As indicated in the 1959 report distribution to these users has for years came under the duties of the water commissioner.

The acreage and water turns of these diversions all have been checked Put in order and consolidated. It is my recommendation that distribution to these diversions be turned over to Lake Bottoms Canal and that they make assessment in accordance with the water turn tickets furnished. The Lake Bottoms Canal officials have indicated their willingness to accept this responsibility. Should the Canal Company need supervision in affecting this transfer it will be gladly given.

On spring Creek proper, which runs into Lake Bottoms Canal there are some five diversions which could also be taken over by Lake Bottoms Canal Company for distribution and assessment in accordance with the turn tickets which can be furnished. If this transfer of duty can not be effected it is my recommendation that the minimum individed assessment be held at \$3.00 each.

In making distribution to Utah Valley users, the most disturbing single condition or violation has been repeated tampering with the River check boards at the West Union, Upper East Union, and City Creek Joint Dam. When N.F. is low and any of these board are tampered with or removed any user having a turn under the canals mentioned loses his turn until the boards are replaced and the water put back in the canals. There has never been any restriction for fishing from the concrete apron of this dan and it is the opinion of the writer that any one tampering with the boards does so under the gaise of a fisherman and not as a fisherman as such.

Attempts have been made without success to get the local Fish and Game authorities of post this dam apron against fishing from. It is recommended that this request be carried to a higher authority level and that the Board request the State Engineer to get the State Fish and Game officials to affect this posting. There are two places or reaches of the river now posted, namely; immediatly below Deer Creek Dam and UP&L Co. spillway of their steam plant. The several canals should jointly post a non-trespass notice on this dam. This should aid in apprehending anyone removing the boards.

Acre Feet Storage Summary With Deer Creek Project Use

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